Special Issue

Advances in Multicomponent Catalytic Materials

Message from the Guest Editor

Multicomponent catalysts are promising catalytic materials that combine multiple elements, phases, or microstructures. Notably, recent developments in the synthetic methodologies of multicomponent nanomaterials, such as phase-separated heterostructures and high-entropy alloys, have enabled tremendous new combinations as well as new possibilities, which have led to an outbreak in the study of multicomponent nanocatalysts. In this Special Issue, we will bring together the latest advances related to multicomponent catalytic materials. The topics include, but are not limited to, the design, synthesis, characterization, and modeling of multicomponent materials and their applications in thermal catalysis, electrocatalysis, photocatalysis, and other catalytic processes. Original research articles and communications within the theme of this Special Issue are all welcome.

Guest Editor

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